

# MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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# DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

CertainTeed Corporation 1400 Union Meeting Road, P.O. Box 1100 Blue Bell, PA 19422-0761

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

# **DESCRIPTION:** CertainTeed Modified Bitumen Roofing Systems over Wood Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 08-0410.09 and consists of pages 1 through 32. The submitted documentation was reviewed by Jorge L. Acebo.



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# **ROOFING SYSTEM APPROVAL**

<u>Category:</u> Roofing

Sub-Category: Modified Bitumen

Material:APP/SBSDeck Type:WoodMaximum Design Pressure:-60 psf.

# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Dwaduat	Dimonsions	Test <b>Specification</b>	Product Description
Product	<u>Dimensions</u>		<u>Description</u>
All Weather/Empire Base	36" x 65'10";	ASTM D 4601	Asphalt coated, fiberglass reinforced base sheet.
Sheet	Roll weight: 86 lbs.	Type II	reinforced base sneet.
Flex-I-Glas <sup>TM</sup> Base Sheet	(2 squares) 36" x 98'9"; Roll	UL Type 15 ASTM D 4601,	Modified Bitumen coated
Tiex-1-Glas Base Silect	weight: 90 lbs.	Type II	fiberglass base sheet.
	(3 squares)	UL Type G2	ilbergiass base sheet.
Flex-I-Glas™ FR Base	$39^{3}/_{8}$ " x 50'; Roll	ASTM D 6163,	Modified Bitumen coated
Sheet	weight: 90 lbs.	Grade S, Type I	fiberglass base sheet.
Sheet	(1.5 squares)	Grade 5, Type I	nocigiass base sheet.
Flintglas® Ply Sheet Type	36" x 164'7"; Roll	ASTM D 2178	Fiberglass, asphalt impregnated ply
IV or VI	weight: 40/55 lbs.	Type IV or VI	sheet.
1, 01 ,1	(5 squares)	UL Type G1	Silver.
Flintlastic STA	$39^{3}/_{8}$ " x 33'; Roll	ASTM D 6222,	Smooth surfaced APP Modified
STA Plus 5.0	weight: 90 lbs.	Grade S, Type II	Bitumen membrane with non-
	(1 square)	7 31	woven polyester mat reinforcement
	/		for torch application.
Flintlastic GTA, GTA-FR	$39^{3}/_{8}$ " x 33' 3"; Roll	ASTM D 6222,	Granule surfaced APP Modified
	weight: 105 lbs.	Grade G, Type II	Bitumen membrane with non-
	(1 square)		woven polyester mat reinforcement
			for torch application.
Flintlastic GMS,	$39^{3}/_{8}$ " x 34' 2"; Roll	ASTM D 6164,	Granule surfaced SBS Modified
GMS Premium	weight: 100/105 lbs.	Grade G, Type II	Bitumen membrane with non-
	(1 square)		woven polyester mat reinforcement
	2		for mop application.
Flintlastic FR,	$39^{3}/_{8}$ " x 34' 2"; Roll	ASTM D 6164,	Fire resistant, granule surfaced
FR-P Premium	weight: 105 lbs.	Grade G, Type I	SBS Modified Bitumen Membrane
	(1 square)		with non-woven polyester mat
	20.3/ II 2412II D 11	A CTD 4 D (1/2	reinforcement for mop application.
Flintlastic FR Cap Sheet	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll	ASTM D 6163,	Fire resistant, granule surfaced
	weight: 90 lbs.	Grade G, Type I	SBS Modified Bitumen membrane
	(1 square)		with fiberglass mat reinforcement
Flintlastic FR Cap T	39-3/8" x 34'2"; Roll	ASTM D6163	for mop applications. Granule surfaced SBS Modified
rimuasue ric Cap i	weight: 81lbs.	ASTIVI DUTUS	Bitumen membrane with fiberglass
	(1 square)		mat reinforcement for torch
	(1 square)		application.
			approactor.



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		Test	Product
<b>Product</b>	<u>Dimensions</u>	<b>Specification</b>	<u>Description</u>
Flintlastic FR Base T	39-3/8" x 33'; Roll Weight: 81lbs. (1.0 squares)	ASTM D6163	Modified Bitumen, coated fiberglass base sheet for torch application.
Flintlastic FR Cap CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 90 lbs. (1 square)	ASTM D 6163	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic FR Cap T CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 90 lbs. (1 square)	ASTM D 6163	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic GTA, GTA-FR CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 33' 3"; Roll weight: 105 lbs. (1 square)	ASTM D 6222	Granule surfaced APP Modified Bitumen membrane with non- woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.
Flintlastic GMS/GMS Premium CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 100/105 lbs. (1 square)	ASTM D 6164	Granule surfaced SBS Modified Bitumen membrane with non- woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic FR-P/FR-P Premium CoolStar	39 <sup>3</sup> / <sub>8</sub> " x 34' 2"; Roll weight: 105 lbs. (1 square)	ASTM D 6164	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating. Covered with reflective CoolStar Coating.
Ultra Poly SMS	36" x 64'4" (2 squares)	ASTM D 6164, Grade S, Type I	Smooth surfaced SBS Modified Bitumen Membrane with non- woven polyester mat reinforcement for mop applications.
GlasBase™ Base Sheet	36" x 98'9"; Roll weight: 69 lbs. (3 squares)	ASTM D 4601 UL Type G2	Asphalt coated, fiberglass base sheet.
PolySMS Base Sheet	39 <sup>3</sup> / <sub>8</sub> " x 64' 4"; Roll weight: 90 lbs. (2 squares)	ASTM D 4601, Grade S, Type II UL Type G2	Modified Bitumen coated polyester base sheet.
Yosemite® Buffer Base Sheet	36" x 32'10"; Roll weight: 90 lbs.	ASTM D 3909 ASTM D 4897 UL Type 30	Mineral Surfaced fiberglass reinforced buffer sheet.
Black Diamond™ Base Sheet	36" x 68'7"; Roll weight: 78 lbs. (2 squares)	ASTM D 1970	Self-adhering fiberglass reinforced modified bitumen base sheet



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# **APPROVED INSULATIONS:**

#### TABLE 2

<b>Product Name</b>	<b>Product Description</b>	Manufacturer (With Current NOA)
FlintBoard ISO	Polyisocyanurate foam insulation	CertainTeed Corporation
ACFoam -II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Perlite Insulation	Perlite insulation board	Generic
DensDeck, DensDeck Prime	Water resistant gypsum board	Georgia Pacific Gypsum LLC
H-Shield	Polyisocyanurate foam insulation	Hunter Panels LLC
ENRGY 3, ENRGY 3 25 PSI	Polyisocyanurate foam insulation	Johns Manville Corp.
Multi-Max FA-3	Polyisocyanurate foam insulation	RMax Operating, LLC

# **APPROVED FASTENERS:**

#### TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast 12 & 14 Fastener	Insulation fastener		SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex Plate	Galvalume AZ50 steel plate	2 <sup>7</sup> / <sub>8</sub> " x 3 <sup>1</sup> / <sub>4</sub> "	SFS Intec, Inc.
3.	OMG #12 & #14 Roofgrip Fasteners	Insulation fastener		OMG, Inc.
4.	OMG 3 in. Round Metal Plates	3" round galvalume AZ50 steel plate	3" round	OMG, Inc.
5.	Trufast #12 DP Fastener	Insulation fastener for wood and steel decks		Altenloh, Brinck & Co. U.S., Inc.
6.	Trufast 3" Metal Insulation Plate	Galvalume steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
7.	Trufast 3" TL Insulation Plate	Galvalume steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
8.	Dekfast 15 HS	Coated, carbon steel fastener	Various	SFS Intec, Inc.
9.	Trufast #15 EHD Fastener	Coated, carbon steel screw	various	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast #14 HD Fastener	Coated, carbon steel screw	various	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast 2" Metal Seam Plates	Galvalume steel stress plate	2" round	Altenloh, Brinck & Co. U.S., Inc.



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# **EVIDENCE SUBMITTED:**

Test Agency/Identifier	<u>Name</u>	<b>Report</b>	<u>Date</u>
Factory Mutual Research Corp.	FMRC 4470	J.I. 3Y8A1.AM	03/23/96
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
United States Testing Company	ASTM D 5147 ASTM D 5147	97457-4 97-457-2R	06/03/88 12/02/87
Momentum Technologies, Inc.	ASTM D 4601 ASTM D6164 ASTM D6222 ASTM D 3909/ D 4897	AX31G8D AX31G8F AX31G8G AX31G8C	09/05/08 06/05/09 06/05/09 09/05/08
Trinity ERD	TAS 114(J) TAS 114(J) TAS 117 (B) TAS 117 (B) TAS 114 (H) TAS 114 TAS 114 TAS 114 TAS 114 TAS 117 (B)/ ASTM D 6862 TAS 114 ASTM Physical Properties ASTM D6164/D4798 ASTM D4601 ASTM D1970 ASTM D5147/D4798 ASTM D5147/D4798	#3507.08.99-1 #3514.02LAB 3503.10.06 O6490.04.07-R1 Letter 3533.01.06 3521.07.04 C8500SC.11.07 C8370.08.08 C10080.09.08-R4 C31410.01.11-2 C40050.09.12-1 C40050.09.12-2 C31410.10.10-R1 C31410.01.11-1-R1	04/18/01 11/11/02 10/10/06 06/27/07 04/05/06 01/06/06 07/29/04 11/30/07 08/19/08 03/25/10 01/10/11 09/28/12 11/01/12 11/01/12
PRI Construction Materials Technologies LLC	ASTM D6163 ASTM D6163 ASTM D6164 ASTM D6222 ASTM D6164/D4798 ASTM D2178 ASTM D2178 ASTM D4601 ASTM D6163 ASTM D6163 ASTM D6164	CTC-032-02-01 CTC-066-02-01 CTC-068-02-01 CTC-070-02-01 CTC-093-02-01 CTC-122-02-01 CTC-123-02-01 CTC-127-02-01 CTC-128-02-01 CTC-129-02-01 CTC-132-02-01	01/22/08 08/09/11 08/09/11 08/09/11 08/09/11 03/13/12 03/13/12 06/11/12 06/11/12



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#### APPROVED ASSEMBLIES:

Membrane Type: APP MODIFIED Deck Type 1I: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with

approved asphalt.

#### All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base or Poly SMS base mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with approved roofing nails and tin

caps 9"o.c. in the lap and two rows staggered in the center of the sheet 12"o.c.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoar	d ISO, H-Shield	
Minimum 1.5" thick	N/A	N/A
Approved Perlite Minimum ¾" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of products listed under 'Anchor Sheet' above adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One or more plies of Flintglas Ply Sheet (Type IV) or Flintglas

Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black

Diamond Base Sheet self-adhered or Flintlastic STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 6 of 32 Membrane Type: SBS MODIFIED

Deck Type 1I: Wood, Insulated

**Deck Description:** 19/32" or greater plywood or wood plank

System Type A(2): Anchor sheet mechanically fastened; all layers of insulation adhered with approved

asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I Glas

FR Base or Poly SMS base mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with approved roofing nails and tin caps

9"o.c. in the lap and two rows staggered in the center of the sheet 12"o.c.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintI	Board ISO , H-Shield	·
Minimum 1.5" thick	N/A	N/A
Approved Perlite Minimum ¾" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of products listed under 'Anchor Sheet' above adhered in a full mopping of

approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: One more plies of Ultra Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas

Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond

Base Sheet (for use with a torched cap sheet only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS,

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic

FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 7 of 32 **Membrane Type:** APP MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

System Type A(3): Anchor sheet mechanically fastened; all layers of insulation adhered with

approved asphalt.

#### All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glas Base or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails

and approved tin caps 8"o.c. in the lap and three rows staggered in the center of

the sheet 8"o.c.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ACFoam-II, Multi-Max FA-3, ENRGY 3, FlintBoard ISO, H-Shield

Minimum 1.5" thick N/A N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Black Diamond Base Sheet self-adhered.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas

Base, Flex-I Glas Base, Flex-I Glas FR Base or Poly SMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate

of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or

Flintlastic STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -52.5 psf (See General Limitation #7)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 8 of 32 **Membrane Type:** SBS MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

System Type A(4): Anchor sheet mechanically fastened; all layers of insulation adhered with

approved asphalt.

#### All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glas Base or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails

and approved tin caps 8"o.c. in the lap and three rows staggered in the center of

the sheet 8"o.c.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoard	,	
Minimum 1.5" thick	N/A	N/A
Approved Perlite		
Minimum ¾" thick	N/A	N/A
Approved High Density Wood Fiberboard		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas Base, Flex-I

Glas Base, Flex-I Glas FR Base or Poly SMS base adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One or more plies of Flintglas Ply Sheet (Type IV) or Flintglas

Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet only) self-adhered.



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Membrane:

One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap sheet, Flintlastic FR Cap Sheet CoolStar adhered to base/ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to base/ply sheet.

Surfacing:

(Optional) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq.
- 2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -52.5 psf (See General Limitation #7)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 10 of 32 **Membrane Type:** APP MODIFIED

**Deck Type 1I:** Wood, Insulated

**Deck Description:** Minimum  $^{19}/_{32}$ " thick plywood attached using approved nails spaced 4" o.c. at

wood joists spaced maximum 24" o. c.

System Type A(5): Anchor sheet mechanically fastened; all layers of insulation adhered with

approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, GlasBase or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails

and approved tin caps 8"o.c. in the lap and three rows staggered in the center of

the sheet 8"o.c.

One or more layers of any of the following insulations.

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft<sup>2</sup>

ACFoam-II, Multi-Max FA-3, ENRGY 3, FlintBoard ISO, H-Shield

Minimum 1.5" thick N/A N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base: One ply of Black Diamond Base Sheet self-adhered.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas

Base, Flex-I Glas Base, Flex-I Glas FR Base or Poly SMS base or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or

Flintlastic STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 11 of 32 **Membrane Type:** SBS MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:** Minimum  $^{19}/_{32}$ " thick plywood attached using approved nails spaced 4" o.c. at

wood joists spaced maximum 24" o. c.

System Type A(6): Anchor sheet mechanically fastened; all layer of insulation adhered with

approved asphalt.

### All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, GlasBase or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Anchor sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails

and approved tin caps 8"o.c. in the lap and three rows staggered in the center of

the sheet 8"o.c.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoa	rd ISO, H-Shield	
Minimum 1.5" thick	N/A	N/A
Approved Perlite		
Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas Base, Flex-I

Glas Base, Flex-I Glas FR Base or Poly SMS base adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One or more plies of Flintglas Ply Sheet (Type IV) or Flintglas

Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet only) self-adhered.



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 12 of 32 Membrane:

One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap sheet, Flintlastic FR Cap Sheet CoolStar adhered to base/ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to base/ply sheet.

Surfacing:

(Optional) Any coating, listed below, used as a surfacing, must be listed within a current NOA. Install one of the following:

- 1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq.
- 2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 13 of 32 **Membrane Type:** APP MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

System Type B(1): Base layer of insulation mechanically attached, optional top layer adhered with

approved asphalt.

#### All General and System Limitations apply.

one or more layers of any of the following insulations under those listed as Top Layer:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ENRGY 3, ENRGY 3 25 PSI		
Minimum 1.4" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
ACFoam-II, FlintBoard ISO, H-Shield		
Minimum 1.5" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
Approved Perlite		
Minimum ¾" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
Approved High Density Wood Fiberboard		
Minimum ½" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
DensDeck, DensDeck Prime		
Minimum ¼" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>

Any of the insulations listed for Base Layer

Note: Optional top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, GlasBase, Flex-I Glas Base, Flex-I Glas

FR Base, Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the insulated substrate with approved mopping asphalt applied

within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas Base,

Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic STA torch adhered.



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 14 of 32 Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR CoolStar

torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 15 of 32 **Membrane Type:** SBS MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

System Type B(2): Base layer of insulation mechanically attached, optional top layer adhered with

approved asphalt.

#### All General and System Limitations apply.

One or more layers of any of the following insulations under those listed as Top Layer:

<b>Base Insulation Layer</b>	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ENRGY 3, ENRGY 3 25 PSI Minimum 1.4" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
ACFoam-II, FlintBoard ISO, H-Shield Minimum 1.5" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
Approved Perlite Minimum ¾" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
Approved High Density Wood Fiberboard Minimum ½" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
DensDeck, DensDeck Prime Minimum ¼" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners	Fastener
-	(Table 3)	Density/ft <sup>2</sup>

Any of the insulations listed for Base Layer

Note: Optional top layer of insulation shall be adhered with approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I Glas

FR Base, Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) or Ultra Poly SMS adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas Base,

Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet only) self-adhered.

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APPROVED

NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 16 of 32 Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS,

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR

Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1.5 gal./sq.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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**Membrane Type:** APP MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

**System Type C(1):** All layers of insulation simultaneously attached.

#### All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBoa	,	·
Minimum 1.5" thick	N/A	N/A
Approved Perlite Minimum ¾" thick	N/A	N/A
Approved High Density Wood Fiberboard Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Approved Perlite	,	·
Minimum ¾" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
Approved High Density Wood Fiberboard		
Minimum ½" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
DensDeck, DensDeck Prime		
Minimum 1/4" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base, Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the insulated substrate with approved mopping asphalt

applied within the EVT range and at a rate of 20-40 lbs./sq.



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Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas

Base, Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic

STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 19 of 32 **Membrane Type:** SBS MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

**System Type C(2):** All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations under those listed as Top Layer:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, FlintBo	oard ISO, H-Shield	-
Minimum 1.5" thick	N/A	N/A
Approved Perlite		
Minimum <sup>3</sup> / <sub>4</sub> " thick	N/A	N/A
Approved High Density Wood Fiberboard		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum 1/4" thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
<b>Approved Perlite</b>	, ,	·
Minimum 3/4" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
Approved High Density Wood Fiberboard		
Minimum ½" thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>
DensDeck, DensDeck Prime		
Minimum <sup>1</sup> / <sub>4</sub> " thick	Any approved fasteners in Table 3	1:2 ft <sup>2</sup>

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base, Poly SMS, Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) or Ultra Poly SMS adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.



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Ply Sheet:

(Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas Base, Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap

sheet only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS,

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1.5 gal./sq.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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**Membrane Type:** APP MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

**System Type D(1):** All layers of insulation and base sheet simultaneously attached.

#### All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, ENRGY 3, ENRGY 3 25 PSI, F	TintBoard ISO, H-Shield	•
Minimum 1.5" thick	N/A	N/A
Approved Perlite		
Minimum ¾" thick	N/A	N/A
Approved High Density Wood Fiberboard		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base or Poly SMS base mechanically attached as detailed in Fastening #1, below or one ply of Poly SMS mechanically attached as detailed in Fastening #2

or #3, below.

Fastening #1: OMG #12 or #14 Roofgrip fasteners with OMG 3" Round Metal Plates, Dekfast

#14 or #15 HS and Dekfast Galvalume Steel Hex Plates, Trufast #12 DP Fastener or Trufast #14 HD Fastener with Trufast 3" Metal Insulation Plates or Dekfast #12 and Dekfast Galvalume Steel Hex Plates spaced 4" o.c. at a 4" side lap and two

staggered rows in the center of the sheet, 24" o.c.

Fastening #2: OMG #12 or #14 Roofgrip fasteners with OMG 3" Round Metal Plates, Dekfast

#12, Dekfast #14 or #15 HS and Dekfast Galvalume Steel Hex Plates, Trufast #12 DP Fastener or Trufast #14 HD Fastener with Trufast 3" Metal Insulation Plates spaced 12" o.c. at a 4" side lap and two staggered rows in the center of the sheet,

36" o.c.

Fastening #3: Trufast #12 DP Fastener or Trufast #14 HD Fastener with Trufast 2" Metal Seam

Plates or Dekfast #12 or Dekfast #14 with approved 2" round metal plates at a 4"

side lap, 12" o.c.



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 22 of 32 Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas

Base, Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic

STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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**Membrane Type:** SBS MODIFIED

**Deck Type 1I**: Wood, Insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank

**System Type D(2):** All layers of insulation and base sheet simultaneously attached.

#### All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
ACFoam-II, UltraGard Gold, ENRGY 3, ENRGY 3 25	PSI, FlintBoard ISO, H-Shiel	d
Minimum 1.5" thick	N/A	N/A
Approved Perlite		
Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum <sup>1</sup> / <sub>4</sub> " thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base or Poly SMS base mechanically attached as detailed in Fastening #1, below or one ply of Poly SMS mechanically attached as detailed in Fastening #2

or #3, below.

Fastening #1: OMG #12 or #14 Roofgrip fasteners with OMG 3" Round Metal Plates, Dekfast

#12, Dekfast #14 or #15 HS and Dekfast Galvalume Steel Hex Plates, Trufast #12 DP Fastener or Trufast #14 HD Fastener with Trufast 3" Metal Insulation Plates spaced 4" o.c. at a 4" side lap and two staggered rows in the center of the sheet,

24" o.c.

Fastening #2: OMG #12 or #14 Roofgrip fasteners with OMG 3" Round Metal Plates, Dekfast

#12, Dekfast #14 or #15 HS and Dekfast Galvalume Steel Hex Plates, Trufast #12 DP Fastener or Trufast #14 HD Fastener with Trufast 3" Metal Insulation Plates spaced 12" o.c. at a 4" side lap and two staggered rows in the center of the sheet,

36" o.c.

Fastening #3: Trufast #12 DP Fastener or Trufast #14 HD Fastener with Trufast 2" Metal Seam

Plates or Dekfast #12 or Dekfast #14 with approved 2" round metal plates at a 4"

side lap, 12" o.c.



NOA No.: 13-0204.03 Expiration Date: 06/19/14 Approval Date: 05/30/13 Page 24 of 32 Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas

> Base, Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) or Ultra Poly SMS adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use

with a torched cap sheet only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS,

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1.5 gal./sq.

Maximum Design

Pressure: -45 psf. (See General Limitation #9)



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**Membrane Type:** APP MODIFIED

Deck Type 1: Wood, Non-insulated

<sup>19</sup>/<sub>32</sub>" or greater plywood or wood plank decks **Deck Description:** 

**System Type E(1):** Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base or Poly SMS base mechanically attached as detailed below.

Base sheet shall be lapped 4" and fastened with approved roofing nails and tin Fastening:

caps 9" o.c. in the lap and two rows staggered in the center of the sheet 12" o.c.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas

> Base, Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic

STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC

#212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

-45 psf. (See General Limitation #9) Pressure:



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**Membrane Type:** SBS MODIFIED

**Deck Type 1**: Wood, Non-insulated

**Deck Description:**  $^{19}/_{32}$ " or greater plywood or wood plank decks

**System Type E(2):** Base sheet mechanically fastened.

All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I Glas Base, Flex-I

Glas FR Base or Poly SMS base mechanically fastened as detailed below.

Fastening: Base sheet shall be lapped 4" and fastened with approved roofing nails and tin

caps 9"o.c. in the lap and two rows staggered in the center of the sheet 12"o.c.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Glas Base, Flex-I-Glas

Base, Flex-I-Glas FR Base, PolySMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) or Ultra Poly SMS adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use

with a torched cap sheet only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS,

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150 or APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1.5

gal./sq.

Maximum Design

Pressure: -45 psf (See General Limitation #9)

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**Membrane Type: APP MODIFIED** 

Deck Type 1: Wood, Non-Insulated

 $^{19}/_{32}$ " or greater plywood or wood plank **Deck Description:** 

System Type E(3): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Base sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and

approved tin caps 8"o.c. in the lap and three rows staggered in the center of the

sheet 8"o.c.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas

> Base, Flex-I Glas Base, Flex-I Glas FR Base or Poly SMS or one or more plies of Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate

of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or

Flintlastic STA torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC

#212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -52.5 psf (See General Limitation #7)



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**Membrane Type: SBS MODIFIED** 

Deck Type 1I: Wood, Non-Insulated

 $^{19}/_{32}$ " or greater plywood or wood plank **Deck Description:** 

System Type E(4): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glas Base or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Base sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and Fastening:

approved tin caps 8"o.c. in the lap and three rows staggered in the center of the

sheet 8"o.c.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas

> Base, Flex-I Glas Base, Flex-I Glas FR Base or Poly SMS or one or more Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet

only) self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS,

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -52.5 psf (See General Limitation #7)



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**Membrane Type:** APP MODIFIED

**Deck Type 1:** Wood, Non-Insulated

**Deck Description:** Minimum <sup>19</sup>/<sub>32</sub>" thick plywood attached using approved nails spaced 4" o.c. at

wood joists spaced maximum 24" o. c.

**System Type E(5):** Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, GlasBase or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Base sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and

approved tin caps 8"o.c. in the lap and three rows staggered in the center of the

sheet 8"o.c.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas

Base, Flex-I Glas Base, Flex-I Glas FR Base or Poly SMS or one or more Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered or Flintlastic STA

torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or GTA-FR

CoolStar torch adhered to base/ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



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**Membrane Type:** SBS MODIFIED

Deck Type 1: Wood, Non-Insulated

Minimum <sup>19</sup>/<sub>32</sub>" thick plywood attached using approved nails spaced 4" o.c. at **Deck Description:** 

wood joists spaced maximum 24" o. c.

**System Type E(6):** Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, GlasBase or Flintglas Premium Ply

Sheet (Type VI) mechanically attached as detailed below.

Fastening: Base sheet shall be lapped 4" and fastened with 11 ga. annular ring shank nails and

approved tin caps 8"o.c. in the lap and three rows staggered in the center of the

sheet 8"o.c.

Ply Sheet: (Optional) One ply of All Weather/Empire Base Sheet, Ultra Poly SMS, Glas

> Base, Flex-I Glas Base, Flex-I Glas FR Base or Poly SMS or one or more Flintglas Ply Sheet (Type IV) or Flintglas Premium Ply Sheet (Type VI) adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet (for use with a torched cap sheet

only) self-adhered.

One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Membrane:

Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap Sheet, Flintlastic FR Cap Sheet CoolStar adhered to ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap T or Flintlastic FR Cap T CoolStar torch adhered to ply sheet.

Surfacing: (Optional) Any coating, listed below, used as a surfacing, must be listed within a

current NOA. Install one of the following:

1. 400-lb./sq. gravel or 300-lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq.

2. Karnak (#97 AF) Fibrated Aluminum Roof Coating, FlintCoat A-150, APOC #212 Fibrated Aluminum Roof Coating at an application rate of 1 ½ gal. /sq.

Maximum Design

Pressure: -60 psf. (See General Limitation #7)



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#### **WOOD DECK SYSTEM LIMITATIONS:**

1. A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

#### **GENERAL LIMITATIONS:**

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

#### Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

#### END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
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